
Tables

Table 1
Summary of Historical Upriver Dam Surface/Near-Surface Sediment Chemical Data

Sample/Station	River Mile	Percent Fines	Percent Solids	TOC (Percent Dry)	Zinc (mg/kg dry)	Total PCBs ($\mu\text{g}/\text{kg}$ dry)	Cadmium (mg/kg dry)	Lead (mg/kg dry)	Arsenic (mg/kg dry)
EC-84.5 (94-328270; 0 to 2cm)	84.5	1%		0.40%		5			
EC-84.0 (94-328271; 0 to 2cm)	84	1%		1.10%		67			
EC-9 (99-018085; 0 to 10cm)	83.5	2%	69%	1.80%	1,410	67	4.6	308	3.8
EC-83.4 (94-328272; 0 to 2cm)	83.4	6%		2.20%		170			
EC-81.5 (94-218093; 0 to 2cm)	81.5					5			
EC-81.5 (94-328275; 0 to 2cm)	81.5	5%		1.10%		11			
HC-81.5 (SED/K-1; 0 to 2cm)	81.5		7%	16.80%		120			
USGS-SRC-6 (0 to 27cm)	81.5			6.40%	2,300				
Anchor/Exponent 9-SG (0 to 10 cm)	80.7	1%	95%	0.10%	223	ND			
Anchor/Exponent 7-SG (0 to 10 cm)	80.7	4%	93%	0.50%	598	ND			
Anchor/Exponent 6-SG (0 to 10 cm)	80.6	2%	94%	0.10%	723	ND			
EC 43-8021 (0 to 10cm)	80.6	3%	44%	2.50%	1,650	1,307	9.7	195	4.8
Anchor/Exponent 5-SG (0 to 10 cm)	80.5	5%	84%	0.30%	595	ND			
EC-80.5 (93-318235; 0 to 2cm)	80.5	34%		11.00%		3,000			
EC-80.5 (94-318237; 0 to 2cm)	80.5	22%		11.00%		2,577			
EC-80.5 (94-318274; 0 to 2cm)	80.5	10%		2.20%		23			
EC-80.5 (94-328001; 0 to 5cm)	80.5	33%		13.00%	4,050	4,500			
EC-3 (99-018082; 0 to 10cm)	80.5	13%	15%	13.70%	8,960	9	14	1420	35
Anchor/Exponent 4-SG (0 to 10 cm)	80.4	7%	76%	0.50%	724	ND			
HC-80.4 (SED/HC-5; 0 to 5cm)	80.4		17%	10.20%		1,010			
HC-80.4 (SED/HC-5; 10 to 15cm)	80.4		22%	8.70%		2,341			
EC-2 (99-018081; 0 to 10cm)	80.4	6%	55%	3.60%	1,990	254	13	342	5.8
Anchor/Exponent 3-SG (0 to 10 cm)	80.3	3%	81%	0.20%	611	ND			
EC-1 (99-018080; 0 to 10cm)	80.3	17%	30%	8.40%	3,280	1,273	27	564	12
Anchor/Exponent 2-SG (0 to 10 cm)	80.3	3%	76%	0.50%	651	ND			
Anchor/Exponent 1-SG (0 to 10 cm)	80.2	10%	53%	2.30%	1,230	33			
EC 43-8020 (0 to 10cm)	80.2	21%	30%	6.70%	3,010	1,431	23	479	13

= exceeds Sediment Quality Standards (SQS)

= exceeds Cleanup Screening Levels (CSL)

dry = results reported on a dry weight basis

$\mu\text{g}/\text{kg}$ = micrograms / kilogram

mg/kg = milligrams / kilogram

Fines = sum of silt and clay grain size fractions

ND = non detect

*Note: SQS and CLSs are the probable sediment quality standards from Ecology's Phase II Report on Sediment Quality Values for Freshwater Sediments in Washington State (2003). This document presents these values for discussion purposes only and notes that final SQVs selected may differ from these values.

Table 2
Spokane River -
Summary of Sediment Conventional and Organic Data

	Location ID Sample ID	AN-10 AN-10SD-A	AN-11 AN-11SD-A	AN-11 AN-11SD-B	AN-11 AN-11SD-C	AN-11 AN-11SD-D	AN-11 AN-11SD-E	AN-11 AN-61SD-A	AN-12 0-10	AN-13 0-10	AN-14 0-10	AN-15 0-10	AN-20 AN-20SD-A	AN-20 AN-70SD-A	AN-21 AN-21SD-A	AN-22 AN-22SD-A
	Depth Interval (cm)	0-10	0-10	10-20	20-30	30-40	40-51.5	0-10	Field Duplicate	0-10	Field	0-10	Field	0-10	Field	0-10
	Sample Type	Field	9/6/2003	Field	9/6/2003	Field	9/3/2003	Field	9/6/2003	Field						
	Sample Date	9/3/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	Field		9/6/2003	Field	9/6/2003	Field	9/6/2003	Field	9/6/2003
Conventional (%)																
Total Organic Carbon	0.13	0.13	0.08	0.04 J	0.05	4.72	0.6	0.3	0.4	0.58	0.98	0.11	0.13	0.07	0.07	0.07
Total solids	92.2	89.8	86.7	92.9	89.6	60.2	94.6	74.2	81	70.3	66.5	92.1	94.1	93.3	92.5	
TPH (mg/kg dry)																
TPH - Residual Range	100 U	100 U	--	100 U	--	1200 O	100 U	100 U	100 U	87 J	130 U	--	--	--	--	--
TPH - Diesel Range	50 U	50 U	--	50 U	--	430	50 U	50 U	50 U	37 Z	60 U	--	--	--	--	--
TPH - Gasoline Range	20 U	20 U	--	20 U	--	20 U	20 U	20 U	20 U	20 U	20 U	--	--	--	--	--
Grain Size (%)																
Gravel	48.6	84.4	80.5	60.2	61.7	16.9	80.2	12.9	59.5	1.32	0.62	83.8	95	70.5	66	
Sand, Very Coarse	33.3	8.59	6.41	16.7	15.5	7.39	10.2	4.4	9.67	3.35	12.2	13.5	12.6	7.15	12	
Sand, Coarse	15.1	3.44	6.45	8.62	13.1	11.9	3.32	23	11.8	38.4	55.4	0.45	0.44	12.2	16.5	
Sand, Medium	2.72	5.19	7.2	6.56	9.24	41.3	4.92	52.4	15.8	42.1	20.7	0.48	0.39	8.57	6.22	
Sand, Fine	0.52	1.36	0.71	0.4	0.38	10.9	1.13	4.89	4.41	11.5	5.94	0.78	0.78	0.7	0.4	
Sand, Very Fine	0.12	0.14	0.11	0.12	0.07	4.31	0.13	0.28	0.81	1.53	2.07	0.08	0.08	0.07	0.04	
Silt	0.12	0.2	0.22	0.23	0.11	7.3	0.19	0.38	1.08	1.62	3.15	0.12	0.09	0.11	0.07	
Clay	0.09	0.06	0.08	0.03	0.07	1.4	0.06	0.06	0.26	0.15	0.06	0.05	0.08	0.02	0.04	
PCBs (µg/kg dry)																
Aroclor 1016	15 U	8.5 U	10 U	10 U	10 U	13 U	8.4 U	9.5 U	8 U	11 U	12 U	10 U	10 U	10 U	11 U	
Aroclor 1221	20 U	17 U	20 U	20 U	20 U	25 U	17 U	19 U	16 U	22 U	23 U	20 U	20 U	20 U	21 U	
Aroclor 1232	48 U	8.5 U	10 U	10 U	10 U	13 U	8.4 U	9.5 U	8 U	11 U	12 U	10 U	10 U	10 U	11 U	
Aroclor 1242	32 U	8.5 U	10 U	10 U	10 U	13 U	8.4 U	9.5 U	8 U	11 U	12 U	10 U	10 U	10 U	11 U	
Aroclor 1248	28	8.5 U	10 U	10 U	10 U	14	10	9.5 U	8 U	11 U	20	3.4 J	4.4 J	3 J	5.3 J	
Aroclor 1254	8.2 U	8.5 U	10 U	10 U	10 U	32 U	8.4 U	9.5 U	8 U	11 U	12 U	10 U	10 U	10 U	11 U	
Aroclor 1260	8.2 U	8.5 U	10 U	10 U	10 U	26	8.4 U	9.5 U	8 U	11 U	12 U	10 U	10 U	10 U	11 U	
Total PCBs	28	17 U	20 U	20 U	20 U	40	10	19 U	16 U	22 U	20	3.4 J	4.4 J	3 J	5.3 J	
SVOCs (µg/kg dry)																
2,4-Dimethylphenol	49 U	48 U	--	48 U	--	50 U	45 U	51 U	50 U	50 U	49 U	--	--	--	--	--
2-Methylnaphthalene	9.7 U	9.5 U	--	9.6 U	--	9.1 J	9 U	11 U	9.9 U	4.4 J	9.8 U	--	--	--	--	--
2-Methylphenol	9.7 U	9.5 U	--	9.6 U	--	10 U	9 U	11 U	9.9 U	10 U	9.8 U	--	--	--	--	--
4-Methylphenol	9.7 U	9.5 U	--	9.6 U	--	15	9 U	11 U	9.9 U	18	9.8 U	--	--	--	--	--
Acenaphthene	9.7 U	9.5 U	--	9.6 U	--	10 U	9 U	11 U	9.9 U	10 U	4.7 J	--	--	--	--	--
Acenaphthylene	9.7 U	9.5 U	--	9.6 U	--	6.4 J	9 U	11 U	9.9 U	10 U	9.8 U	--	--	--	--	--
Anthracene	9.7 U	9.5 U	--	9.6 U	--	4.8 J	9 U	11 U	9.9 U	10 U	4.9 J	--	--	--	--	--
Benzo(a)anthracene	9.7 U	9.5 U	--	9.6 U	--	16	9 U	4.3 J	9.9 U	2.8 J	34	--	--	--	--	--
Benzo(a)pyrene	9.7 U	9.5 U	--	9.6 U	--	16	9 U	4.2 J	9.9 U	3.5 J	63	--	--	--	--	--
Benzo(b)fluoranthene	9.7 U	9.5 U	--	9.6 U	--	16	9 U	4.3 J	9.9 U	4.2 J	54	--	--	--	--	--
Benzo(g,h,i)perylene	9.7 U	9.5 U	--	9.6 U	--	14	9 U	4 J	9.9 U	3.6 J	73	--	--	--	--	--
Benzo(k)fluoranthene	9.7 U	9.5 U	--	9.6 U	--	12	9 U	11 U	9.9 U	10 U	34	--	--	--	--	--
Benzoic acid	200 U	190 U	--	200 U	--	200 U	180 U	210 U	200 U	180 J	160 J	--	--	--	--	--
Benzyl alcohol	9.7 U	9.5 U	--	9.6 U	--	10 U	9 U	11 U	9.9 U	8.2 J	6.9 J	--	--	--	--	--
Carbazole	9.7 U	9.5 U	--	9.6 U	--	10 U	9 U	11 U	9.9 U	10 U	7.4 J	--	--	--	--	--
Chrysene	9.7 U	9.5 U	--	9.6 U	--	20	9 U	5.1 J	9.9 U	4.3 J	50	--	--	--	--	--
Dibenzo(a,h)anthracene	9.7 U	9.5 U	--	9.6 U	--	10 U	9 U	11 U	9.9 U	10 U	11	--	--	--	--	--
Fluoranthene	9.7 U	9.5 U	--	9.6 U	--	30	9 U	6.1 J	9.9 U	4.5 J	51	--	--	--	--	--
Fluorene	9.7 U	9.5 U	--	9.6 U	--	4.3 J	9 U	11 U	9.9 U	10 U	9.8 U	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	9.7 U	9.5 U	--	9.6 U	--	13	9 U	3.2 J	9.9 U	10 U	48	--	--	--	--	--
Naphthalene	9.7 U	9.5 U	--	9.6 U	--	18	9 U	11 U	9.9 U	2.4 J	9.8 U	--	--	--	--	--
Phenanthrene	9.7 U	9.5 U	--	9.6 U	--	26	9 U	4 J	9.9 U	8 J	27	--	--	--	--	--
Phenol	29 U	29 U</td														

Table 2
Spokane River -
Summary of Sediment Conventional and Organic Data

	Location ID Sample ID	AN-23 AN-23SD-A	AN-24 AN-24SD-A	AN-25 AN-25SD-A	AN-26 AN-26SD-A	AN-27 AN-27SD-A	AN-28 AN-28SD-A	AN-29 AN-29SD-A	AN-30 AN-30SD-A	AN-31 AN-31SD-A	AN-31 AN-81SD-A	AN-32 AN-32SD-A	AN-40 AN-40SD-A	AN-40 AN-40SD-B	AN-41 AN-41SD-A	AN-42 AN-42SD-A	BWE-9 BWE-9
	Depth Interval (cm)	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	10-15	0-10	0-10	
	Sample Type	Field															
	Sample Date	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/3/2003	9/6/2003	9/5/2003	9/5/2003	9/5/2003	9/6/2003	9/3/2003	9/5/2003	9/3/2003	9/4/2003	
Conventional (%)																	
Total Organic Carbon	0.25	0.77	6.04	0.5	0.18	0.23	1.41	1.51	0.5	0.53	0.06	3.53	2.81	4.34	2.56	15.6	
Total solids	88.7	90.8	48.6		92.1	88.9	91.2	65.2	81.6	82.6	85.1	44		60.4		22.6	
TPH (mg/kg dry)																	
TPH - Residual Range	--	--	450 Z	--	--	--	--	130 U	--	--	--	550 Z	--	150 U	--	2000 O	
TPH - Diesel Range	--	--	86 J	--	--	--	--	50 U	--	--	--	130 Z	--	50 U	--	690	
TPH - Gasoline Range	--	--	20 U	--	--	--	--	20 U	--	--	--	40 U	--	20 U	--	130 U	
Grain Size (%)																	
Gravel	66.8	84.2	14.3	12.2	72	12.4	44.6	22.4	65.4	51.9	70.2	2.72	3.34	9.27	5.88	29.7	
Sand, Very Coarse	5.13	3.59	3.7	2.83	10.8	44.2	32.7	2.35	2.55	3.28	11.2	3.06	5.55	7.74	3.29	16.6	
Sand, Coarse	15.9	7.13	9.62	6.79	5.12	28.4	17.2	4.49	6.43	7.18	18.2	21.3	33.8	46.1	16.8	12.4	
Sand, Medium	10	3.51	17.4	39.6	6.91	12.5	5.4	27.4	14.4	16.5	6.01	41.3	37.4	23.7	25.1	10.7	
Sand, Fine	0.63	0.31	32.3	20.2	1.56	1.01	0.28	29.1	7.44	7.79	0.29	16.5	8.2	5.27	21.7	16.9	
Sand, Very Fine	0.16	0.1	12.3	6.38	0.18	0.18	0.05	11.3	3.1	3.31	0.06	7.4	2.49	1.43	8.96	10.9	
Silt	0.58	0.3	15.5	11.4	0.27	0.24	0.06	7.87	4.99	5.13	0.26	11	4.79	4.06	12	12.7	
Clay	0.1	0.04	3.84	1.94	0.08	0.08	0.06	1.73	3.7	3.95	0.1	1.4	1.16	0.73	1.26	1.93	
PCBs (µg/kg dry)																	
Aroclor 1016	11 U	10 U	19 U	9 U	10 U	10 U	10 U	10 U	11 U	11 U	10 U	15 U	13 U	13 U	14 U	34 U	
Aroclor 1221	21 U	20 U	37 U	18 U	20 U	20 U	20 U	20 U	21 U	21 U	20 U	30 U	25 U	26 U	28 U	68 U	
Aroclor 1232	11 U	10 U	19 U	9 U	10 U	10 U	10 U	10 U	11 U	11 U	10 U	15 U	13 U	13 U	14 U	34 U	
Aroclor 1242	11 U	10 U	19 U	9 U	10 U	10 U	10 U	10 U	11 U	11 U	10 U	15 U	13 U	13 U	14 U	34 U	
Aroclor 1248	2.6 J	3.4 J	33	9 U	8.2 J	10 U	3.2 J	6.8 J	2.4 J	2.3 J	10 U	330	95	79	25	260	
Aroclor 1254	11 U	10 U	19 U	9 U	10 U	10 U	10 U	10 U	11 U	11 U	10 U	15 U	13 U	13 U	14 U	34 U	
Aroclor 1260	11 U	10 U	19 U	9 U	10 U	10 U	10 U	10 U	11 U	11 U	10 U	15 U	13 U	13 U	14 U	34 U	
Total PCBs	2.6 J	3.4 J	33	18 U	8.2 J	20 U	3.2 J	6.8 J	2.4 J	2.3 J	20 U	330	95	79	25	260	
SVOCs (µg/kg dry)																	
2,4-Dimethylphenol	--	--	62 U	--	--	--	--	50 U	--	--	--	69 U	--	500 U	--	140 U	
2-Methylnaphthalene	--	--	13 U	--	--	--	--	2.3 J	--	--	--	3.1 J	--	150	--	6.1 J	
2-Methylphenol	--	--	13 U	--	--	--	--	10 U	--	--	--	14 U	--	100 U	--	27 U	
4-Methylphenol	--	--	16	--	--	--	--	34	--	--	--	45	--	100 U	--	62	
Acenaphthene	--	--	13 U	--	--	--	--	10 U	--	--	--	3.3 J	--	230	--	27 U	
Acenaphthylene	--	--	13 U	--	--	--	--	10 U	--	--	--	14 U	--	100 U	--	11 J	
Anthracene	--	--	13 U	--	--	--	--	2.3 J	--	--	--	25	--	710	--	8.5 J	
Benzo(a)anthracene	--	--	5.8 J	--	--	--	--	7.2 J	--	--	--	81	--	1300	--	34	
Benzo(a)pyrene	--	--	6.2 J	--	--	--	--	7 J	--	--	--	81	--	920	--	41	
Benzo(b)fluoranthene	--	--	6 J	--	--	--	--	7.3 J	--	--	--	58	--	760	--	49	
Benzo(g,h,i)perylene	--	--	9.6 J	--	--	--	--	5.1 J	--	--	--	48	--	460	--	35	
Benzo(k)fluoranthene	--	--	13 U	--	--	--	--	5.5 J	--	--	--	65	--	700	--	32	
Benzoic acid	--	--	230 J	--	--	--	--	200 U	--	--	--	280 U	--	2000 U	--	440 J	
Benzyl alcohol	--	--	13 U	--	--	--	--	10 U	--	--	--	14 U	--	100 U	--	27 U	
Carbazole	--	--	13 U	--	--	--	--	10 U	--	--	--	6.8 J	--	84 J	--	27 U	
Chrysene	--	--	7 J	--	--	--	--	8.8 J	--	--	--	76	--	1400	--	44	
Dibenzo(a,h)anthracene	--	--	13 U	--	--	--	--	10 U	--	--	--	11 J	--	160	--	27 U	
Fluoranthene	--	--	13	--	--	--	--	14	--	--	--	140	--	1900	--	66	
Fluorene	--	--	13 U	--	--	--	--	10 U	--	--	--	4.9 J	--	350	--	27 U	
Indeno(1,2,3-cd)pyrene	--	--	8.6 J	--	--	--	--	5.2 J	--	--	--	49	--	480	--	30	
Naphthalene	--	--	3.8 J	--	--	--	--	4 J	--	--	--	5.3 J	--	45 J	--	25 J	
Phenanthrene	--	--	7.4 J	--	--	--	--	9.6 J	--	--	--	81	--	2400	--	34	
Phenol	--	--	40	--	--	--	--	15 J	--	--	--	48	--	300 U	--	99	
Pyrene	--	--	12 J	--	--	--	--	16	--	--	--	150	--	2500	--	59	
Retene	--	--	130 U	--	--	--	--	100 U	--	--	--	1600	--	100			

Table 3
Sediment Analytical Results from 2004 Sampling

Location ID	51	52	53	53	54	55	56	57	58	59	60	61
Sample ID	UPR-51-041007	UPR-52-041007	UPR-53-041007	UPR-103-041007	UPR-54-041007	UPR-55-041007	UPR-56-041007	UPR-57-041007	UPR-58-041007	UPR-59-041007	UPR-60-041007	UPR-61-041007
Sample Date	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004	10/7/2004
Sample Type	Field	Field	Field	Field Duplicate	Field							
Depth Interval (cm)	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10
Conventionals (%)												
Total Organic Carbon	16.0%	0.28%	7.4%	NA	4.7%	0.45%	6.4%	2.1%	2.9%	5.7%	10.1%	1.5%
Total Solids	26.1%	88.1%	47.4%	NA	46.3%	73.4%	50.8%	74.7%	56.3%	47.6%	47.3%	72.5%
Grain Size (%)												
Gravel	9	80.2	23	NA	1.9	1.1	2.2	0.2	0.2	3	4.7	0.7
Sand, Very Coarse	11.7	10.3	4.3	NA	3.3	4.3	3.6	1.9	1.1	4	3.4	1.2
Sand, Coarse	8.6	3.5	5.3	NA	4.8	53	18.6	19.2	7.8	8.5	6.3	23.3
Sand, Medium	31.8	4	14	NA	21.5	35	26.2	36.6	45.9	22.5	46.2	59.4
Sand, Fine	25.3	1.3	41	NA	55	4.5	28.9	20.8	31.2	15.1	29.4	9.2
Sand, Very Fine	2.5	0.3	7.2	NA	5.8	0.8	10	7.5	4.1	14.6	3.7	1.6
Silt	9	0.4	3.1	NA	4.7	1	7.8	8.7	7.3	21.2	4.1	2.5
Clay	2.1	0	1.9	NA	3.1	0.2	2.7	5	2.4	11	2.2	2
PCBs (µg/kg dry)												
Aroclor 1016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	13	ND	22	25	11	ND	ND	ND	12	ND	13	ND
Aroclor 1254	13 J	ND	18	17	ND	ND	ND	ND	34	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PCBs	26	0	40	42	11	0	0	0	46	0	13	0

ND = not detected (<10 µg/kg)

NA = not analyzed

dry = dry weight basis

µg/kg = micrograms/kilogram

Table 4
Spokane River -
Summary of Metals Sediment Data

Location ID Sample ID*	AN-10 AN-10SD-A-01 9/3/2003	AN-10 AN-10SD-A-02 9/3/2003	AN-11 AN-11SD-A-01 9/6/2003	AN-11 AN-11SD-A-02 9/6/2003	AN-12 AN-12SD-A-01 9/6/2003	AN-12 AN-12SD-A-02 9/6/2003	AN-13 AN-13SD-A 9/6/2003	AN-14 AN-14SD-A 9/3/2003	AN-15 AN-15SD-A 9/3/2003	AN-20 AN-20SD-A 9/6/2003	AN-21 AN-21SD-A 9/6/2003	AN-22 AN-22SD-A 9/6/2003	AN-23 AN-23SD-A 9/6/2003	AN-24 AN-24SD-A 9/6/2003	AN-25* AN-25SD-A-01 9/6/2003
Sample Date	9/3/2003	9/3/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/3/2003	9/3/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003	9/6/2003
Depth Interval (cm)	0-10		0-10		0-10		0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10
Water Depth (feet)	11		12		10		10	3	2	22	22	18	14.5	16	10
Metals (mg/kg dry)															
Arsenic	5.59	5.32	ND	ND	ND	ND	9.84	7.42	5.07	ND	ND	5.08	5.04	21.0	
Cadmium	1.64	1.55	2.57	2.82	2.08	3.11	1.51	2.77	2.83	3.66	0.993	1.35	0.993	0.973	30.1
Lead	96.6	103	103	262	77.5	94.6	131	431	262	167	74.2	77.9	96.1	99.7	2920
Zinc	619	618	827	897	643	872	1080	1310	1220	1190	600	623	671	676	4940

* Selective sieving (600u dry sieved) was performed on sediment samples dominated by materials of a size greater than the course sand range. The samples that were sieved are AN-25, AN-30, AN-40, AN-41, AN-42, and BWE-9

mg/kg = milligrams / kilogram

dry = dry weight basis

Table 4
Spokane River -
Summary of Metals Sediment Data

Location ID Sample ID* Sample Date	AN-25 AN-25SD-A-02 9/6/2003	AN-25 AN-25SD-A-03 9/6/2003	AN-26 AN-26SD-A 9/6/2003	AN-27 AN-27SD-A 9/6/2003	AN-28 AN-28SD-A 9/3/2003	AN-29 AN-29SD-A 9/6/2003	AN-30* AN-30SD-A 9/5/2003	AN-31 AN-31SD-A-01 9/5/2003	AN-31 AN-31SD-A-02 9/5/2003	AN-32 AN-32SD-A 9/6/2003	AN-40* AN-40SD-A-01 9/3/2003	AN-40* AN-40SD-A-02 9/3/2003	AN-41* AN-41SD-A 9/3/2003	AN-42* AN-42SD-A 9/3/2003	BWE-9* BWE-9 9/4/2003
Depth Interval (cm)			0-10	0-10	0-10	0-10	0-10	0-10		0-10	0-10		0-10	0-10	0-10
Water Depth (feet)			8.6	22	27	12	13.5	14.4		20	1.5		1.5	2.5	28
Metals (mg/kg dry)															
Arsenic	20.5	ND	ND	ND	5.76	5.28	7.91	ND	ND	5.32	5.80	5.31	8.71	36.4	17.2
Cadmium	29.1	8.07	0.713	2.75	1.27	1.65	7.40	0.917	3.4	0.745	9.40	9.72	2.80	15.8	49.5
Lead	2840	289	854	98.7	109	92.5	1010	26.8	94.8	84.4	601	599	278	1860	618
Zinc	4630	1650	1450	820	737	627	2200	460	751	527	1720	1800	1090	2540	3550

Table 5
Sediment Screening Values
Ecology's Freshwater Lowest Apparent Effects Threshold

	LAET*	2LAET**	SQS***	CSL****
Conventionals (%)				
Total Organic Carbon	9.82	--	--	--
TPH (mg/kg)				
TPH - Residual Range	--	--	--	--
TPH - Diesel Range	--	--	--	--
TPH - Gasoline Range	--	--	--	--
PCBs (µg/kg dry)				
Total PCBs	62	354	60	120
SVOCs (µg/kg dry)				
2,4-Dimethylphenol	--	--		
2-Methylnaphthalene	469	555	470	560
2-Methylphenol	--	--		
4-Methylphenol	760	2360	--	--
Acenaphthene	1060	1320	1060	1320
Acenaphthylene	470	640	470	640
Anthracene	1230	1580	1200	1580
Benzo(a)anthracene	4260	5800	4260	5800
Benzo(a)pyrene	3300	4810	3300	4810
Benzo(bk)fluoranthenes	11000	13800	11000	14000
Benzo(g,h,i)perylene	4020	5200	4020	5200
Benzoic acid	1910	3790	--	--
Benzyl alcohol	--	--	--	--
Carbazole	923	--	--	--
Chrysene	5940	6400	5940	6400
Dibenzo(a,h)anthracene	800	839	800	840
Fluoranthene	11100	15000	11000	15000
Fluorene	1070	3850	1000	3000
Indeno(1,2,3-cd)pyrene	4120	5300	4120	5300
Naphthalene	529	1310	500	1310
Phenanthrene	6100	7570	6100	7600
Phenol	--	--	--	--
Pyrene	8790	16000	8800	16000
Retene	6020	--	--	--
Metals (mg/kg dry)				
Arsenic	31.4	50.9	20	51
Cadmium	2.39	2.9	0.6	1.0
Lead	335	431	335	430
Zinc	683	1080	140	160

LAET = lowest observed effects threshold

2LAET = second lowest observed effects threshold

SQS = sediment quality standard

CSL = cleanup screening level

mg/kg = milligrams / kilogram

µg/kg = micrograms / kilogram